

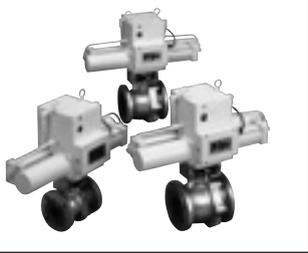
Discontinue

Ball valve actuation leveraging spring force and fail-safe mechanism for secure cutoff.

Ball valve for automatic shutdown **GASB Series**

- NC (Open when energized)
- City gas/natural gas/LPG
- Port size: 50A (JIS flange)/80A (JIS flange)/100A (JIS flange)

December 2020 end of production



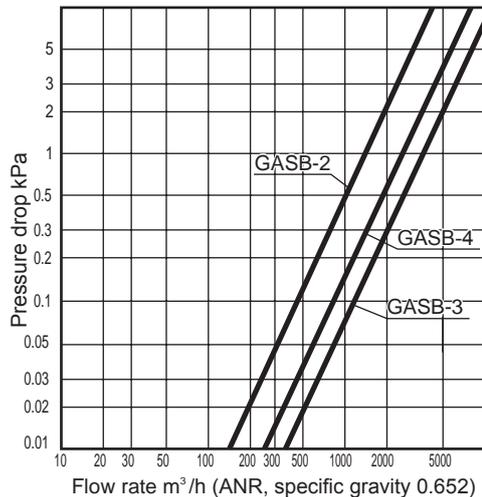
Features

- Fail-safe mechanism to ensure the highest safety
- Supporting up to 1.0 MPa
- Energy-saving low watt type
- With valve open/close instruction display operation confirmation switch
- Ductile cast iron body and stainless steel ball

Specifications

Item	GASB-2	GASB-3	GASB-4
Working fluid	City gas/natural gas/LPG		
Working pressure MPa	0 to 1.0		
Flow rate <small>Specific gravity of natural gas 0.65</small> m ³ /h(ANR)	680	1780	1270
Cv	460	1200	860
Rated voltage V	10 AC 0±10% 200 AC ±10%		
Frequency Hz	Common to 50 and 60		
Apparent power	When valve is opening	460	
	VA When valve is held open	44	
Power consumption	When valve is opening	150	
	W When valve is held open	15	
Ambient temperature °C	-10 to +60 (no freezing)		
Opening time s	20 or less (20°C with rated voltage), 60 or less (at -10°C rated voltage)		
Closing time s	2 or less (at 20°C)		
Frequency cycles/min.	1 or less		
Mounting orientation	Vertical with actuator up / horizontal with actuator horizontal (Note: when horizontal, SHUT side of valve open/close indicator should be on top when actuator is viewed from front.)		
Connection	Flange (JIS 10K RF)		
Port size	50 A	80 A	100A (reduced port)
Weight kg	46	56	59
Proof pressure MPa	1.5		

Flow characteristics

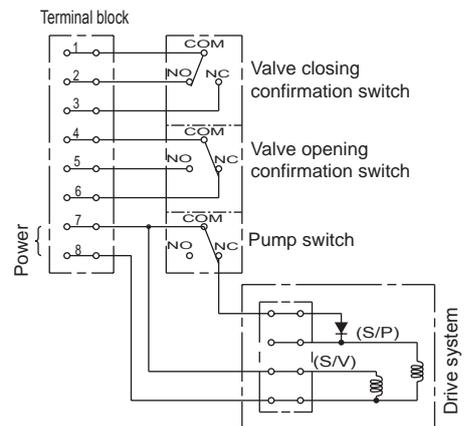


Reference: conversion coefficient

Converted flow rate = (flow rate in table) x (coefficient)

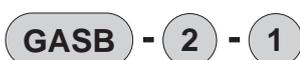
Gas	Natural gas (13A)	City gas (6B.6C)	Propane	Butane	Butane-Air (6A)
Specific gravity (air = 1)	0.65	0.54	1.6	2.0	1.25
Coefficient	1.0	1.09	0.63	0.57	0.72

Electric circuit Fig.



* Each contact indicates when valve is closed. The contact capacity of valve open/close confirmation limit switch is 250 VAC, 10 A.

How to order



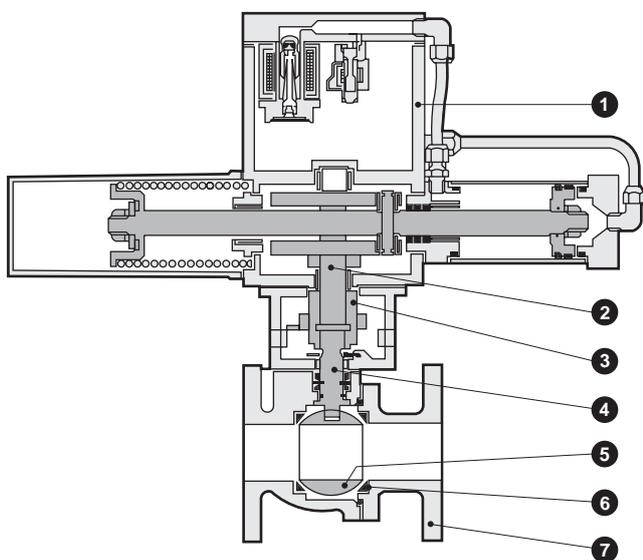
Model No.

● A Port size

● B Voltage

Code	Description
A Port size	
2	JIS Flange 50A
3	JIS Flange 80A
4	JIS Franc100A
B Voltage	
1	100 VAC 50/60Hz
2	200 VAC 50/60Hz

Internal structure and parts list



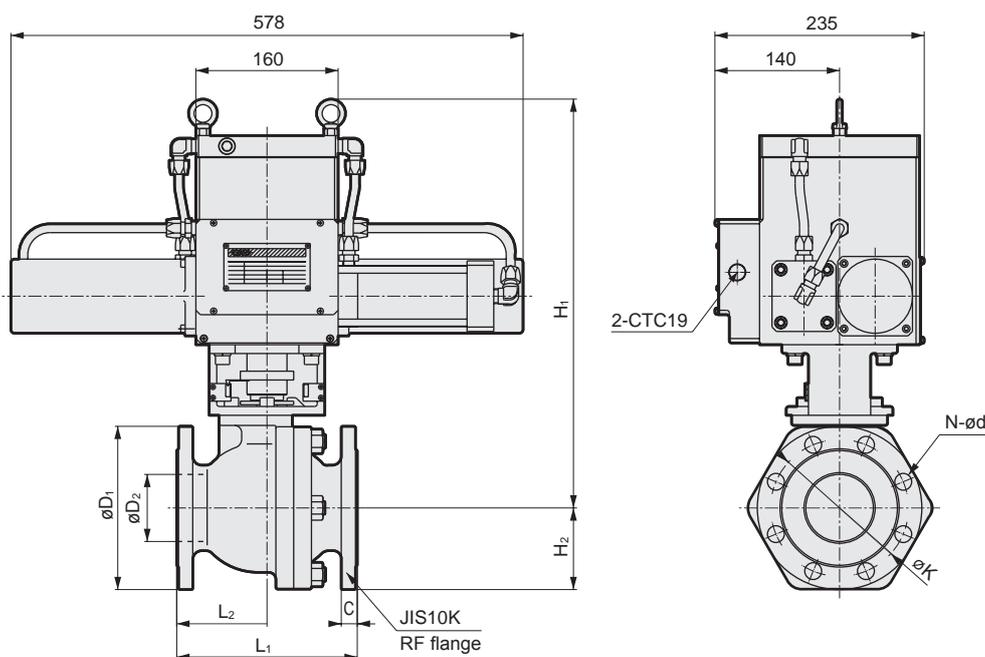
- Opening operation
Hydraulic pressure generated by the solenoid pump drives the piston in the cylinder. Then a rotation torque is applied to the drive shaft to change the ball valve from the fully closed to fully open state.
- Closing operation
When power is turned OFF, the spring force accumulated by the return spring automatically returns the valve from the fully open to fully closed state.

Cannot be disassembled

No.	Part name	Material
1	Housing	Cast iron
2	Drive shaft	Steel
3	Coupling	Steel
4	Stem	Stainless steel
5	Ball	Stainless steel
6	Ball seat	Tetrafluoroethylene resin
7	Body	Ductile cast iron

Dimensions

- GASB-2/3/4



Code Model No.	H ₁	H ₂	L ₁	L ₂	C	øD ₁	øD ₂	øK	N-ød
GASB-2	425	78	178	79	16	155	50	120	4-19
GASB-3	462	93	203	102	18	185	76	150	8-19
GASB-4	462	105	229	114	18	210	102	175	8-19

EXA
 FWD
 HNB/G
 USB/G
 FAB/G
 FGB/G
 FVB
 FWB/G
 FHB
 FLB
 AB
 AG
 AP/
 AD
 APK/
 ADK
 DryAir
 EX-
 XPLNprf
 XPLNprf
 HVB/
 HVL
 S ÷ B/
 NAB
 LAD/
 NAD
 Water-
 Rela
 NP/NAP/
 NVP
 SNP
 CHB/G
 MXB/G
 Other valves
 SWD/
 MWD
 DustColl
 CVE/
 CVSE
 CCH/
 CPE/D
 LifeSci
**Gas-
 Combustion**
 Auto-
 Water
 Outdoor
 SpecFld
 Custom
 Ending